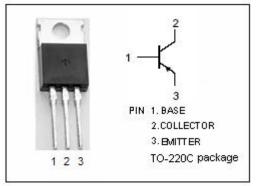


isc Silicon PNP Power Transistor

2SB683

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO} = -100V(Min)
- High Power Dissipation
- Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

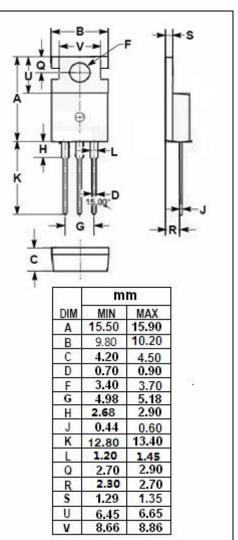


APPLICATIONS

• Designed for low frequency power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{сво}	Collector-Base Voltage	-100	V	
V _{CEO}	Collector-Emitter Voltage	-100	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
lc	Collector Current-Continuous	-5	A	
	Total Power Dissipation @ $T_a=25^{\circ}C$	1.5	147	
Pc	Total Power Dissipation @ T _c =25℃	40	- W	
TJ	Junction Temperature 150		°C	
T _{stg}	Storage Temperature Range -40~150		°C	





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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _c = -10mA; R _{BE} = ∞	-100			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -5mA; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -0.4A			-1.7	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -4A; V _{CE} = -5V			-1.5	V
Ісво	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-30	μA
Iceo	Collector Cutoff Current	V _{CE} = -100V; R _{BE} = ∞			-0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-0.1	mA
h _{FE-1}	DC Current Gain	Ic= -1A; Vce= -5V	55		300	
h _{FE-2}	DC Current Gain	I _C = -4A; V _{CE} = -5V	15			

h_{FE-1} Classifications

С	D	E
55-110	90-180	150-300

NOTICE:

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